



520.43141X00

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: Koichi OKADA, et al.

Serial No.: 10/661,574

Filed: September 15, 2004

For: CHANGING-OVER AND CONNECTING A FIRST PATH,  
WHEREIN HOSTS CONTINUE ACCESSING AN OLD DISK  
USING A SECOND PATH, AND THE SECOND PATH OF THE  
OLD DISK TO A NEWLY CONNECTED DISK VIA A SWITCH  
(Amended)

Group: 2182

Examiner: I. Park

**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §1.97 & 1.98**

**MS Amendment**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

June 15, 2006

Sir:

In the matter of the above-identified application, applicants are submitting copies of the documents listed in the attached form equivalent to Form PTO-1449 for the Examiner's consideration. The Examiner is informed that copies of the U.S. documents are not being enclosed.

This information disclosure statement is being submitted before the mailing date of a first office action on the merits.

To the extent the documents listed on the attached form equivalent to Form PTO-1449 are not in the English language, the requirement of 37 CFR

§1.98(a)(3) for a concise explanation of the relevance is satisfied by an English language translation of the documents.

It is respectfully requested that this information disclosure statement be considered by the Examiner.

Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to the deposit account of MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C., Deposit Account No. 50-1417 (520.43141X00) please credit any excess fees to such deposit account.

Respectfully submitted,



CIB/jdc  
(703) 684-1120

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Carl I. Brundidge  
Registration No. 29,621  
MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C.



**FORM PTO-1449** U.S. Department of  
Commerce Patent and Trademark Office

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(Use several sheets if necessary)

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**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4 0 2 5 9 0 4	5/77	Adney et al			
	5 4 0 8 4 6 5	4/95	Gusella et al			
	5 4 5 9 8 5 7	10/95	Ludlam et al			
	5 5 0 4 8 8 2	4/96	Chai et al			
	5 6 8 0 5 8 0	10/97	Beardsley et al			
	5 8 7 0 5 3 7	2/99	Kern et al			
	5 8 9 5 4 8 5	4/99	Loechel et al			
	5 9 1 7 7 2 3	6/99	Binford			
	5 9 5 6 7 5 0	9/99	Yamamoto, et al			
	6 0 1 2 1 2 3	1/00	Pecone et al			
	6 0 9 8 1 2 9	7/00	Fukuzawa et al			

**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
					YES NO
0 9 2 8 8 5 4 7	11/97	Japan			XX
1 0 2 8 3 2 7 2	10/98	Japan			XX
2 0 0 0 2 9 3 3 1 7	10/00	Japan			XX
2 0 0 0 1 0 6 7 1 8 7	3/01	Japan			XX

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

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(Form PTO-1449 [6-4])

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	6 1 7 3 3 7 4	1/01	Heil, et al			
	6 2 1 9 7 5 3	4/01	Richardson			
	6 2 4 7 0 9 9	6/01	Skazinski et al			
	6 2 4 7 1 0 3	6/01	Kern et al			
	6 4 4 6 1 4 1	9/02	Nolan et al			
	6 4 4 6 1 7 5	9/02	West et al			
	6 4 8 4 1 7 3	11/02	O'Hare, et al			
	6 4 9 0 6 5 9	12/02	McKean et al			
	6 5 2 3 0 9 6	2/03	Sanada et al			
	6 5 2 9 9 7 6	3/03	Fukuzawa et al			
	6 5 5 3 4 0 8	4/03	Merrell et al			

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
						YES	NO
2 0 0 2	1 5 7 0 9 1	5/02	Japan			XX	
2 0 0 2	2 3 0 2 4 6	8/02	Japan			XX	

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	White Paper, "Network Attached Storage in the Data Protection Environment", Sony Electronics Inc., Feb. 2002, pps. 1-23.
	S. Sicola, "SCSI-3 Fault Tolerant Controller Configurations Utilizing SCC & New Event Codes", High Availability Study Group, Doc. No. X3T10 95-312r3, Rev. 3.0, Feb. 28, 1996, pp. 1-4.

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2 0 0 1	0 0 5 0 9 1 5	12/01	O'Hare et al			
2 0 0 1	0 0 5 2 0 1 8	12/01	Yokokura			
2 0 0 2	0 0 0 4 8 5 7	1/02	Arakawa et al			
2 0 0 2	0 1 3 3 7 3 5	9/02	McKean et al			
2 0 0 2	0 1 5 6 8 8 7	10/02	Hashimoto			
2 0 0 3	0 0 3 7 0 7 1	2/03	Harris et al			
	6 3 5 6 9 7 7	3/02	Ofek et al			

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2 0 0 3	0	0	5	1	1	0	9	3/03	Cochran				
2 0 0 3	0	0	5	6	0	3	8	3/03	Cochran				
2 0 0 3	0	0	9	7	6	0	7	5/03	Bessire				
2 0 0 3	0	1	0	1	2	2	8	5/03	Busser et al				
2 0 0 3	0	1	1	5	4	3	2	6/03	Biessener et al				

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	"SAN Virtualization Guidelines", DataCore Software Corporation, 2000, pp. 1-9.

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2 0 0 3	0 1 2 6 3 2 7	7/03	Pesola et al			
2 0 0 3	0 1 4 5 1 6 8	7/03	LeCrone et al			
2 0 0 3	0 1 5 8 9 9 9	8/03	Hauck et al			
2 0 0 3	0 1 6 7 4 1 9	9/03	Yanai et al			
2 0 0 3	0 2 0 0 3 8 7	10/03	Urabe et al			
2 0 0 3	0 2 0 4 5 9 7	10/03	Arakawa et al			
2 0 0 3	0 2 1 2 8 6 0	11/03	Jiang et al			

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2 0 0 3	0 2 2 1 0 7 7	11/03	Ohno et al			
2 0 0 4	0 0 0 3 0 2 2	1/04	Garrison et al			
2 0 0 4	0 0 4 9 5 5 3	3/04	Iwamura et al			
2 0 0 4	0 0 5 4 8 5 0	3/04	Fisk			
2 0 0 4	0 0 6 4 6 1 0	4/04	Fukuzawa et al			
2 0 0 4	0 0 6 4 6 4 1	4/04	Kodama			
2 0 0 4	0 1 1 1 4 8 5	6/04	Mimatsu et al			

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2 0 0 4	0 1 2 3 1 8 0	6/04	Soejima, et al			
2 0 0 4	0 1 4 3 8 3 2	7/04	Yamamoto, et al			
2 0 0 4	0 1 4 8 4 4 3	7/04	Achiwa et al			
2 0 0 4	0 1 7 2 5 1 0	9/04	Nagashima et al			
2 0 0 4	0 2 3 0 9 8 0	11/04	Koyama et al			
2 0 0 4	0 2 6 0 8 7 5	12/04	Murotani et al			

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Introduction to Storage Pooling, Consolidation Storage Resources with DataCore SANsymphony Software" White Paper, DataCore Software, updated July 2003, pp. 1-8.
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	5 1 5 5 8 4 5	10/92	Beal et al			
2 0 0 4	0 2 6 0 9 6 6	12/04	Kaiya et al			
2 0 0 2	0 0 2 9 3 2 6	3/02	Reuter et al			
2 0 0 2	0 0 0 3 0 2 2	1/02	Csida et al			
2 0 0 2	0 0 2 6 5 5 8	2/02	Reuter et al			
2 0 0 2	0 0 1 9 9 2 0	2/02	Reuter et al			
2 0 0 2	0 0 1 9 9 2 2	2/02	Reuter et al			
2 0 0 2	0 0 1 9 9 2 3	2/02	Reuter et al			

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	6 1 9 5 7 3 0	2/01	West			
2 0 0 2	0 0 1 9 9 0 8	2/02	Reuter et al			
2 0 0 2	0 0 6 5 8 6 4	5/02	Hartsell, et al			
2 0 0 2	0 0 8 7 5 4 4	7/02	Selkirk, et al			
2 0 0 2	0 1 0 3 8 8 9	8/02	Markson, et al			
2 0 0 2	0 1 1 2 1 1 3	8/02	Karpoff, et al			

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
					YES NO
9 7 0 9 6 7 6	3/97	PCT			

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2 0 0 2	0 1 5 6 9 8 4	10/02	Padovano			
2 0 0 2	0 1 5 6 9 8 7	10/02	Gajjar, et al			
2 0 0 2	0 1 7 8 3 3 5	11/02	Selkirk, et al			
2 0 0 2	0 1 8 8 5 9 2	12/02	Leonhardt, et al			
2 0 0 5	0 2 4 0 7 4 1	10/05	Nagasawa et al			
	5 9 7 8 8 9 0	11/99	Ozawa et al			

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
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**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	P. Sarkar, et al "Internet Protocol Storage Area Networks", IBM Systems, Journal, vol. 42, No. 2, 2003, pp. 218-231.
	E. Anderson, et al, "Hippodrome: Running Circles Around Storage Administration", Hewlett-Packard Laboratories, pp. 14.

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2 0 0 4	0 0 8 8 4 1 7	5/04	Bober, et al			
2 0 0 3	0 0 9 3 5 6 7	5/03	Lolayekar, et al			
2 0 0 4	0 0 6 8 6 3 7	4/04	Nelson et al			
2 0 0 3	0 2 2 9 6 4 5	12/03	Nelson et al			
2 0 0 5	0 0 3 3 8 7 8	2/05	Mogi et al			
2 0 0 4	0 1 3 9 2 3 7	7/04	Pangal et al			
2 0 0 3	0 1 1 5 2 1 8	6/03	Bobbit et al			

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	6 8 5 7 0 5 7	2/05	Nelson et al			
	6 9 7 3 5 4 9	12/05	Testardi			
	6 9 7 6 1 0 3	12/05	Watanabe et al			
	3 7 7 1 1 3 7	11/73	Barner et al			

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0 3 0 2 3 6 4 0	3/03	PCT			

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	JP 10-508967 (PCT equivalent WO 97/09676).

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	6 6 4 7 3 8 7	11/03	McKean et al			
	6 7 7 2 3 1 5	8/04	Perego			
R E	3 7 3 0 5	7/01	Chang et al			
2 0 0 5	0 1 3 8 1 8 4	6/05	Amir			
2 0 0 4	0 0 5 4 8 6 6	3/04	Blumenau et al			
2 0 0 4	0 0 2 8 0 4 3	2/04	Maveli et al			

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	"SANRAD Application Note: Migrating Individual Servers to an iSCSI SAN", APP-004-01, SANRAD 2003, pp. 1-15.
	"SANRAD Application Note: Data Migration Solution Transferring Data Between Storage Systems Over Fibre-Channel or SCSI Connections, APP-003-03, SANRAD 2003, pp. 1-9.
	"White Paper – Celerra Data Migration Service (CDMS)", EMC Corporation, Jan. 2002, pp. 1-13.

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2 0 0 2	0 1 2 4 1 0 8	9/02	Terrell et al			
2 0 0 3	0 2 0 4 7 0 0	10/03				
2 0 0 5	0 0 1 0 7 4 3	01/05	Tremblay et al			
	4 7 1 0 8 6 8	12/87	Cocke et al			
	6 3 4 1 3 2 9	1/02	LeCrone et al			
	6 6 8 1 3 0 3	1/04	Watabe et al			

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	5 7 5 8 1 1 8	5/98	Choy et al	711	114	
	5 8 3 5 9 5 4	11/98	Duyanovich et al	711	162	
	6 1 0 8 7 4 8	8/00	Ofek et al	711	112	
	6 2 3 0 2 3 9	5/01	Sakaki et al	711	112	
	6 2 4 0 4 8 6	5/01	Ofek et al	711	112	
	6 4 5 7 1 3 9	9/02	D'Errico et al	714	5	
	6 6 4 0 2 9 1	10/03	Fujibayashi et al	711	162	
	6 8 2 6 7 7 8	11/04	Bopardikar et al	725	145	
	6 8 1 6 9 4 8	11/04	Kitamura et al	711	152	

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	5 6 8 0 6 4 0	10/97	Ofek et al	710	19	
2 0 0 2	0 1 9 4 5 2 3	12/02	Ulrich et al	714	4	
2 0 0 3	0 1 8 2 5 2 5	9/03	O'Connell et al	711	162	
2 0 0 5	0 0 8 1 0 0 9	4/05	Williams et al	711	163	
2 0 0 5	0 0 1 0 7 3 4	1/05	Soejima et al	711	163	
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	7 0 5 1 1 2 1	5/06	H. Ohno, et al			

**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
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